D 50533　　　　　　　(Pages : 2)　　　　　　Name......................................

Reg. No................................

FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION NOVEMBER 2023

BCA

BCA 5B 08—JAVA PROGRAMMING

(2019 Admission onwards)

Time : Two Hours　　　　　　　　　　　　　　　　　　Maximum : 60 Marks

Section A (Short Answer Type Questions)

Answer **all** *questions, each correct answer carries a maximum of* 2 *marks.*

Ceiling 20 *marks.*

1. What is encapsulation ?

2. What is an object ? How it is represented in OOPS.

3. What is Byte code ? Explain.

4. Explain the use of literals in Java.

5. What is the use of extends key word in Java ? Explain.

6. How are this and super keyword used ?

7. What is the difference between error and Exceptions ?

8. What is a Threads ? Explain.

9. What is the difference between Method overloading and Method overriding ?

10. What is an Applet ?

11. What is JDBC ?

12. What is the use of public int getColumnCount()throws SQLException ? Explain.

Turn over

Section B (Short Essay Type Questions)

*Answer **all** questions, each correct answer carries a maximum of 5 marks.*

Ceiling 30 marks.

13. Explain different Characteristics of OOPS.

14. What are the primitive data types in Java ? Write about type conversions.

15. How will you implement multiple inheritance using interface ? Explain with a program.

16. How to achieve synchronization among threads ? Write suitable code.

17. How do we create a Java applet ? Discuss its life cycle showing passing parameters to Applets.

18. Write a program to count number of words in a given sentence without using string functions.

19. What feature of Java makes it platform independent and portable ?

Section C (Essay Type Questions)

*Answer any **one** question, correct answer carries 10 marks.*

Ceiling 10 marks.

20. What is inheritance ? Explain different forms of inheritance with suitable program segments and real world example classes.

21. (a) What is a constructor ? What is its requirement in programming ?   (4 marks)

    (b) Explain any five Event Listener Interfaces ? Write a program to prepare electricity bill using Applet.

                                                                                              (6 marks)